

Statement of Work for Antenna Pole Replacement

I. Scope of Work

a. Background

The AFRC DATR operates and maintains a field of wooden antenna poles. These poles are used for the mounting of UHF and VHF antennas. The poles are approximately 90 feet in length and are direct earth buried to a depth of approximately 10 feet. Antennas are mounted on wooden "cross arms" starting at a height of approximately forty feet and every ten feet thereafter to make four arms in total. Cross arms are mounted horizontally and measure 4"x4"x10 Ft. The cross arms are braced diagonally for extra rigidity. Coaxial cabling is mounted to one side of the cross arms while antennas are mounted to the opposite side.

During routine pole inspection, one of the polls was found to be severely cracked and in need of replacement.

This SOW will outline in general, the pole replacement; to include, old pole removal and disposal, new pole installation complete with cross bars and the moving / reattaching of all cabling. Antenna removal and replacement will be done by on-site DATR technicians.

b. Objectives

This document was written to provide a guideline for the replacement of one antenna pole to support NASA's communications systems, Dryden Aeronautical Test Range (DATR) located at Armstrong Flight research center (AFRC).

II. Applicable Document

N/A

III. Technical Point of Contacts

All construction type activities such as lifting, digging etc. will be coordinated through the Armstrong Facilities department.

NASA Safety will have final approval of all activities and safety plans.

IV. Specific Requirements

Please provide cost per unit, delivery time, work schedule and construction safety plan. E-mail responses to procurement at afrc-rfess-procurement@mail.nasa.gov

V. Period of Performance

N/A

VI. Deliverables

a. Testing

b. Quality Control and tracking

We will rely on the vendor's advice and expertise in recommending wood type and materials best suited for longevity in the High Desert environment.

The portion of the wood to be buried should be pretreated as needed with anti-moisture /rot/ fungus agents or processes.

The pole will be permanently marked with a noncorrosive tag indicating date of installation.

All practical commercial quality control standards shall be conformed to during all processes of installation and removal. Any practical quality control documents or test procedures shall also be available.

c. Training

N/A

d. Upgradeability, Reparability and Operability

N/A

e. Pertaining to product behavior

N/A

VII. Acceptance Criteria

Most advantageous to the Government. Best value.

VIII. Contractor/Government Furnished Property/Government Furnished Equipment

The vendor will supply all tools and equipment needed for lifting and digging operations.

IX. Special Considerations

The specifications herein are not limited and may have additional items if necessary

X. Security Requirements

Unclassified